CLCS Review Item Disposition

1. Initiator	LAST NAME FIRST	2. Type of Review	3. RID Number
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5a. Doc. Number	84K00200	6. Doc. Name	System Level Specification (SLS)
5a. Doc. Revision	Pre-Release 1		

6. Name of RID Team	SLS RID Review Team

7. Problem

1. Typo in document name in Section 1.3.
2. Missing document number in Section 1.3.

8. Recommendation

Change: SSL LDB Software Interface Requirements
To: SS LDB Software Interface Requirements

Add: Document number
To: Data Bank Services Requirements Specification (I don't know what it is.)

■ Hardcopy of Redlines/Comments Attached

9. Impact if recommendation not implemented

_____ _____
Initiator - Signature Submission Date

10. Team Recommendation

☐ Accepted ■ Accepted with Modification
☐ Rejected ☐ Study
☐ Withdrawn
☐ Deferred to CLCS CCB Screening Panel

Comments

RID Team Manager - Signature _____

11. Action Required

■ Update Document
☐ Study
Other (specify) _____

Comments

See attached response

12. Final RID Closure Action

■ RID to be incorporated in next revision
☐ RID to be incorporated in other (specify)

RID Team Manager - Signature _____

13. Additional Comments/Notes

Due **NO LATER THAN** April 30, 1997

ATTACHMENT 00200-280

1. INTRODUCTION

1.1 SCOPE

This document identifies the system level requirements that are the basis for the development of the Checkout and Launch Control System (CLCS). It contains requirements for the Real-Time Processing System (RTPS), Shuttle Data Center (SDC), Simulation System (SIM), and the Business and Information Network (BIN).

1.2 SYSTEM OVERVIEW

The CLCS is composed of the RTPS, the SDC, the SIM, and the BIN. The RTPS provides the capability to monitor and control the elements of the current Space Shuttle Flight Vehicle and Ground Support Equipment (GSE). The SDC is the repository for the Shuttle Launch Processing Test Data and provides the capability to build Test Packages for configuration of the RTPS. The capability to debug and certify RTPS software and to aid in the training of checkout and launch personnel is provided by the SIM. The BIN provides RTPS workstation connectivity and access to non-RTPS applications and data. CLCS provides support to the Space Shuttle Program into the 21st Century and a basic infrastructure upon which to base future design projects such as the Orbiter Upgrades and X-33/RLV.

The CLCS replaces the current Launch Processing System (LPS) with state-of-the-art Commercial Off the Shelf (COTS) based technology. Where task requirements can be met safely by COTS software products, the COTS software is utilized instead of developing custom applications. Any custom software that is developed is written in high level languages which have demonstrated a high degree of portability between platforms. COTS hardware is also utilized where possible in the CLCS. This strategy provides a reliable system that is modular, expandable, and extensible. It is based on open hardware and software standards, easily incorporates new technology and user developed applications, and provides inherent user interface improvements.

1.3 RELATED DOCUMENTS

CP09IT0916	Launch Processing System Checkout, Control and Monitor Subsystem Hardware Interface Module Assembly	December 1975
ICD-2-0A003	Flight Vehicle/LPS Computational Systems Interfaces, Rev. J	November 1994
ICD-2-19001	Shuttle Orbiter/Cargo Standard Interfaces, Rev. K	October 1995
IRIG-200-95	Inter-Range Timing Format	July 1995
KSC-GP-792	Timing Signal Formats	February 1972
KSCL-1143-0463	SCAN Design Specifications	February 1997
SS-P-0002-140T	Space Shuttle Computer Program Development Specifications (CPDS) SS Downlist/Uplink Software Requirements	October 1995
SS-P-0002-150N	Space Shuttle Computer Program Development Specifications SS LDB~~SSL LDB~~ Software Interface Requirements	March 1996
Add: Doc Number	Data Bank Services Requirements Specification	
83K001102	HIM-II Detailed Design Document	September 1994

1.4 DOCUMENT OVERVIEW

This document is identified as the CLCS System Level Specification (SLS). The document is organized into three main sections. Section 1 contains the introduction to the CLCS and the SLS and includes a list of documents referenced within the SLS. The actual CLCS system requirements can be found in Section 2 of the SLS, which is further divided into five subsections. The first subsection contains requirements for the CLCS in general. Subsections two through five are each dedicated to a CLCS Major Subsystem (RTPS, SDC, BIN, SIM).
Finally, the third section of the SLS is dedicated to Blue Book Requirements that have not been incorporated within Section 2 and the reasoning for the omission.

1.5 DOCUMENT CONVENTIONS

The term “shall” is used in this document to indicate that the sentence in which it is used is a requirement levied on one or more products in the CLCS. Conventional MIL-STD terminology is used for products; definitions of many of which

can be found in the glossary. Each section of the document normally begins with a description of the items that are discussed within the section. In many cases, the term “must” is used in the description paragraphs to indicate

RESPONSE ATTACHMENT 200-280

Section 1.3, Related Documents, of the System Level Specification will be modified as follows:

SS-P-0002-150N	Space Shuttle Computer Program Development Specifications **SS LDB** Software Interface Requirements	March 1996

In addition, the reference to the Data Bank Services Requirements Specification will be removed as it is not used anywhere within the System Level Specification. (Refer to RID-003).